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L42: Entry 7 of 9 File: DWPI Mar 2, 1984

DERWENT-ACC-NO: 1984-091668
DERWENT-WEEK: 198415

TITLE: Metallurgical coke mfr. - by blending coals to adjust sum of contents of inert and mineral components and carbonising

PATENT-ASSIGNEE: KAWATETSU KAGAKU KK (KAWI)

PRIORITY-DATA: 1982JP-0147785 (August 27, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 59038279 A	March 2, 1984		005	
JP 90018359 B	April 25, 1990		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 59038279A	August 27, 1982	1982JP-0147785	
JP 90018359B	August 27, 1982	1982JP-0147785	

INT-CL (IPC): C10B 57/04

ABSTRACTED-PUB-NO: JP 59038279A
BASIC-ABSTRACT:

Coals are blended to adjust the sum of the content of inert component and mineral component (total inert) in the maceral gp. of coal to 27-35 vol.% in the carbonising process of coal by forming the blended coal to a somewhat smaller size than a chamber oven to adjust the bulk density to at least 1.0 wet ton/m3 and carbonising in a chamber oven to obtain metallurgical coke.

Crack generation in producing semi-coke is retarded, and pulverisation of prod. coke is prevented. Grain size of coke is improved without reducing the wear resistance of coke. Such coal contg. large amt. of inert component such as Canadian coal may be useful for the prodn. of coke.

ABSTRACTED-PUB-NO: JP 59038279A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/2

DERWENT-CLASS: H09 M24
CPI-CODES: H09-A02A; M24-A01;

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L34: Entry 3 of 4 File: DWPI Nov 21, 1983

DERWENT-ACC-NO: 1984-003594
DERWENT-WEEK: 198401

TITLE: Briquette for cupola - produced by mixing e.g. iron ore powder with binder of cast iron or steel cutting dust and moulding under pressure

PATENT-ASSIGNEE: YOSHIDA TEKKOSHO KK (YOSHN)

PRIORITY-DATA: 1982JP-0085387 (May 19, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 58199830 A	November 21, 1983		002	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 58199830A	May 19, 1982	1982JP-0085387	

INT-CL (IPC): C22B 1/24

ABSTRACTED-PUB-NO: JP 58199830A
BASIC-ABSTRACT:

Briquette is produced by mixing cutting dust of cast Fe or steel as binder with Fe ore powder or reduced Fe pellet and moulding the mixt. under pressure.

When Fe material like Fe ore having no plasticity is used for producing briquette, the amt. of cutting dust used is at least 10%. When Fe material like reduced Fe pellet is used, the amt. of cutting dust used may be several %. The increase of cutting dust added makes it possible to produce briquette having higher strength. The briquette can include carbon material of amt. necessary for reducing Fe ore in the briquette, and carbon material includes graphite, coal powder and silicon carbide.

The use of cutting dust as binder does not bring about redn. of yield or increase of cost.

ABSTRACTED-PUB-NO: JP 58199830A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/2

DERWENT-CLASS: M24
CPI-CODES: M24-A01;

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End of Result Set

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L34: Entry 4 of 4 File: DWPI Nov 15, 1982

DERWENT-ACC-NO: 1983-763891
DERWENT-WEEK: 198337

TITLE: Prepn. of antifriction articles - by grinding coke, graphite and coal pitch fusion pressure forming, heat treatment and impregnation with silicon melt

PATENT-ASSIGNEE: BELOGORSKII V D (BELOI)

PRIORITY-DATA: 1980SU-3214368 (December 5, 1980)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 973509 A	November 15, 1982		004	

INT-CL (IPC): C04B 35/54

ABSTRACTED-PUB-NO: SU 973509A
BASIC-ABSTRACT:

Gas impermeability of the antifriction articles and their physical and mechanical properties are all improved when they are prepd. by mixing 2.5-24.1 pts. of coke with 1 pt. of graphite, adding coal pitch in the ratio of 1.5-3:1, heating for 2-3 hours at 140-150 deg. C, cooling, grinding to less than 1 mm particle size to contain 50-57% of less than 0.09 mm size particles, and pressure forming under the load of 120-200 kg/sq.cm. The formed articles are then heated to 1200 deg. at 3 deg.C/hr. and to 2400 deg. C at 30 deg./hr., machined to reqd. shape and size, and impregnated with molten Si at 2000 deg.C/0.01-0.1mm Hg, with the temp. raised at 400 deg.C/hr.

ABSTRACTED-PUB-NO: SU 973509A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: L02
CPI-CODES: L02-H; L02-H04; L02-J02C;

WEST

End of Result Set

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L39: Entry 8 of 8 File: DWPI Jan 12, 1977

DERWENT-ACC-NO: 1977-82542Y
DERWENT-WEEK: 197746

TITLE: Refractory of high thermal conductivity - prepd. from charge contg. graphite, coal pitch, titanium and petroleum coke base

PATENT-ASSIGNEE: DEMIN A V (DEMII)

PRIORITY-DATA: 1974SU-1998742 (February 19, 1974)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 536148 A	January 12, 1977		000	

INT-CL (IPC): C04B 35/52

ABSTRACTED-PUB-NO: SU 536148A
BASIC-ABSTRACT:

Refractory, heat conducting material is prepd. from a charge comprising (in wt.%): petroleum coke (I) 73-81; graphite (II) 6-8; coal pitch (III) 5-7; and Ti(IV) 8-12. The charge is fired at 1000-1200 degrees C/250-300 kg/cm2 and then compacted at 2400-2600 degrees C/250-300 kg/cm2 pressure.

Typically, a charge comprising (in wt.%) (I) 78, (II) 6, (III) 8 and (IV) 8 has the following properties: density 2.16 g/cm3; compression strength 1100 kg/cm2; thermal conductivity 490 kcal/m.hr. degrees C; and wt. loss at 3000 degrees C 8 x 10-3 g/cm2.s. The material is used at high temp. in the metallurgical and ceramic industries.

ABSTRACTED-PUB-NO: SU 536148A
EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: L02
CPI-CODES: L02-E07;

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L39: Entry 7 of 8 File: DWPI Aug 18, 1978

DERWENT-ACC-NO: 1978-67897A
DERWENT-WEEK: 197838

TITLE: Acid resistant carbon prod. - mfd. by mixing binder, titanium and/or tungsten component and coke graphite or coal, moulding, burning and graphitising

PATENT-ASSIGNEE: IBIGAWA ELECTRIC KK (IBIG)

PRIORITY-DATA: 1977JP-0008962 (January 29, 1977)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 53094313 A	August 18, 1978		000	

INT-CL (IPC): C01B 31/04; C04B 35/54

ABSTRACTED-PUB-NO: JP 53094313A
BASIC-ABSTRACT:

Prodn. of acid-resistant carbon prod. comprises mixing carbon aggregate like coke, graphite and anthracite coal; and a binding material with 0.1-2.0 wt.% of >=1 of <100 mesh titanium metal, titanium oxide, tungsten metal and tungstenic acid, moulding, and burning followed by graphitising treatment at increased temp. The process produces carbon prod. like graphite based prod. with improved resistance when used in atmos. like O2, CO2 and steam.

In an example, 40-50% coke, 15-20% graphite and 30-40% organic binder were mixed with 0.2% each of TiO2, W and WO3 of 200 mesh, burned at 900 degrees C and graphitised at 2500 degrees C. The carbon prod., when heated in air for 6 hrs. at 700 degrees C, showed a wt. loss of 9.4% and no corrosion on the surface, whereas the control without additive showed wt. loss of 31.5%, along the fair degree of corrosion.

ABSTRACTED-PUB-NO: JP 53094313A
EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: E36 L02
CPI-CODES: E31-N03; E35-K; E35-Q; L02-H04;

WEST

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L34: Entry 1 of 4 File: DWPI Apr 11, 2001

DERWENT-ACC-NO: 2001-390789
DERWENT-WEEK: 200142

TITLE: Porous baked carbon brick used for lining of blast furnace comprises specified amounts of electrically calcined anthracite, silicon, titanium, artificial graphite, coal asphalt and resin

INVENTOR: LI, J; YE, L

PATENT-ASSIGNEE: YE L (YELLI)

PRIORITY-DATA: 2000CN-0116085 (October 18, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1290755 A	April 11, 2001		000	C21B007/06

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1290755A	October 18, 2000	2000CN-0116085	

INT-CL (IPC): C21 B 7/06

ABSTRACTED-PUB-NO: CN 1290755A
BASIC-ABSTRACT:

NOVELTY - Porous baked carbon brick comprises: electrically calcined anthracite 45-60 wt%, silicon 3-7 wt%, titanium 5-25 wt%, artificial graphite 8-15 %, coal asphalt 10-15 wt% and resin 2-5 wt%.

USE - The porous baked carbon brick is used for lining of blast furnace.

ADVANTAGE - The brick has high corrosion resistance due to the titanium component, high alkali, wear and oxidation resistance due to silicon carbide component and fine pores due to the metal silicon powder component, which produce chemical reaction with active carbon at temperature of 1050 deg. C to generate whisker beta-silicon carbide enclosing pore.

ABSTRACTED-PUB-NO: CN 1290755A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: M24
CPI-CODES: M24-A05A;

WEST Search History

10/068074

DATE: Sunday, March 09, 2003

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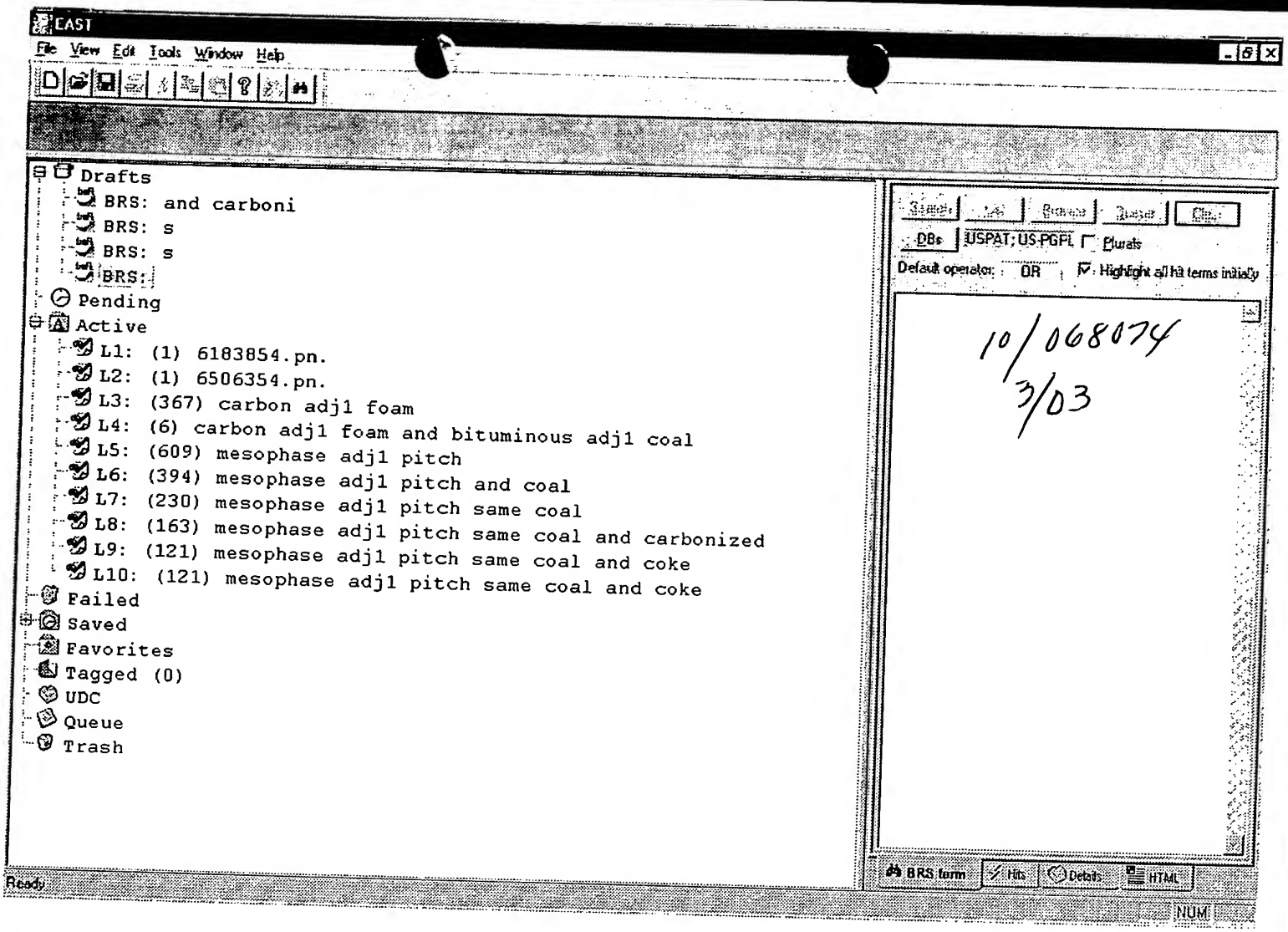
L42	coal and maceral	9	L42
L41	coal and mcaceral	0	L41
L40	coal mcaceral	58203	L40
L39	graphit$3 adj5 coal and titanium	8	L39
L38	graphit$3 adj5 coal and tungsten	1	L38
L37	graphit$3 adj1 coal and tungsten	1	L37
L36	graphit$3 adj1 coal same tungsten	1	L36
L35	graphit$3 adj1 coal with tungsten	1	L35
L34	graphit$3 adj1 coal with silicon	4	L34
L33	coal with silicon	325	L33
L32	doped adj1 coal same silicon	0	L32
L31	coal same silicon adj1 carbide	98	L31
L30	coal and silicon adj1 carbide	201	L30
L29	coal and titanium adj1 carbide	18	L29
L28	coal and tungsten adj1 carbide	40	L28
L27	L25 and silicon	232	L27
L26	L25 and tungsten	54	L26
L25	coal and carbide	666	L25
L24	coal and carbide adj1 precursor	0	L24
L23	production near5 coke same petroleum adj1 pitch	8	L23
L22	production near 5 coke same petroleum adj1 pitch	1254	L22
L21	coke same petroleum adj1 pitch	129	L21
L20	coke and petroleum adj1 pitch	148	L20
L19	coke and petroleum same pitch	548	L19
L18	coke and free and swell	0	L18
L17	coke and free and swell and index	0	L17
L16	coal and swell	58	L16
L15	coal and free with swell	0	L15
L14	coal and free with swell with index	0	L14
L13	coal and free and swell and index	0	L13
L12	L1 and free and swell and index	0	L12

L11	L1 and bituminous	2	L11
L10	L1 and graphite	12	L10
L9	L1 and bituminous and coal	1	L9
L8	L1 and bituminous coal	58204	L8
L7	L3 and bituminous with coal	0	L7
L6	L3 and bituminous	0	L6
L5	L4 and graphite	12	L5
L4	Darren Kenneth Rogers	3977	L4
L3	L1 and carbon	124	L3
L2	L1 and coal	21	L2
L1	Darren Kenneth Rogers	3977	L1

END OF SEARCH HISTORY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L4: (6) carbon adj1 foam and bituminous adj1 coal
L5: (609) mesophase adj1 pitch
L6: (394) mesophase adj1 pitch and coal
L7: (230) mesophase adj1 pitch same coal
L8: (163) mesophase adj1 pitch same coal and carbonized
L9: (121) mesophase adj1 pitch same coal and coke
L10: (121) mesophase adj1 pitch same coal and coke
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